

CONSTRUCTION OF ADCRE VECTORS

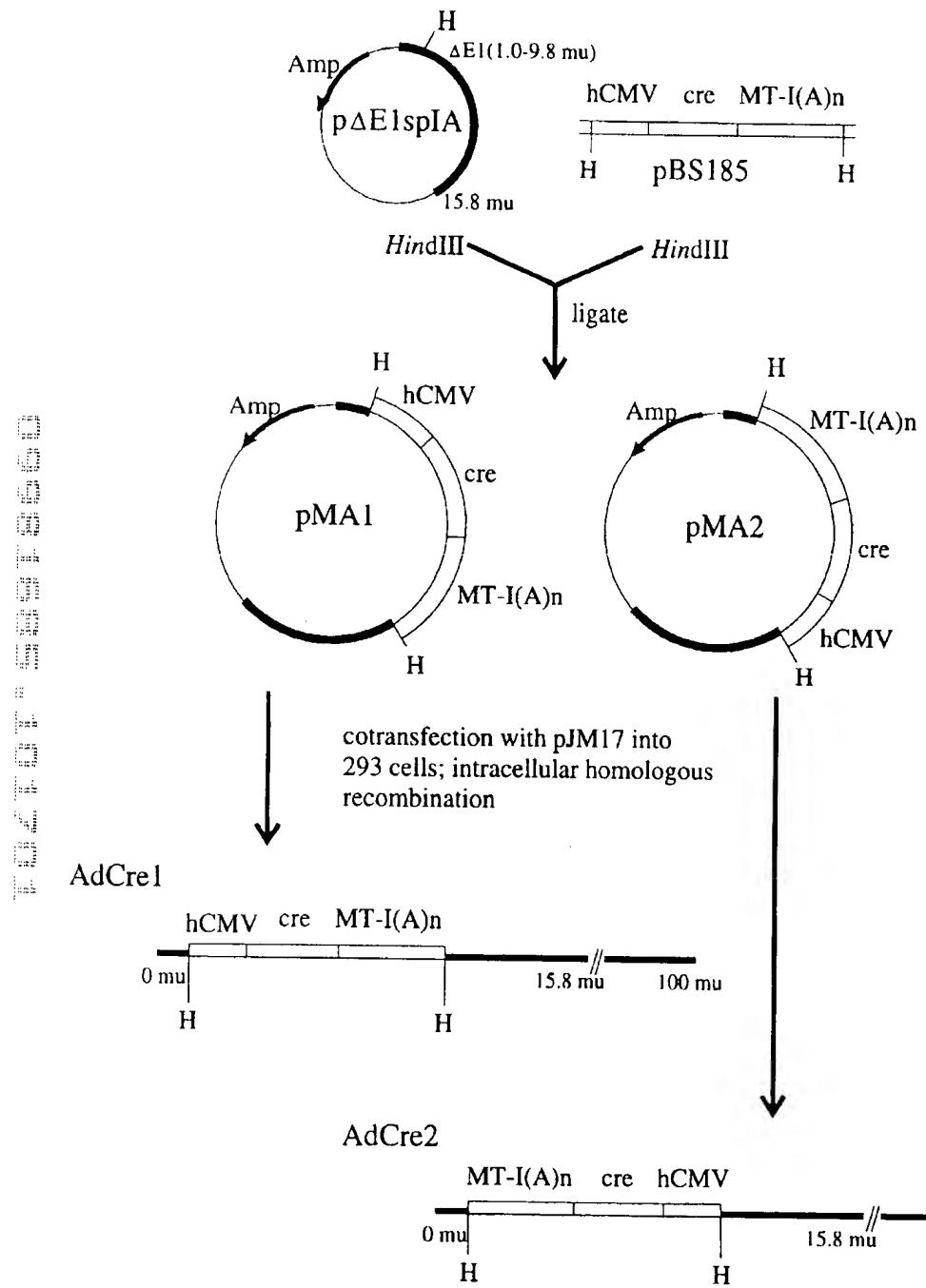


FIGURE 1

EXPRESSION OF CRE RECOMBINASE IN CELLS INFECTED WITH ADCRE

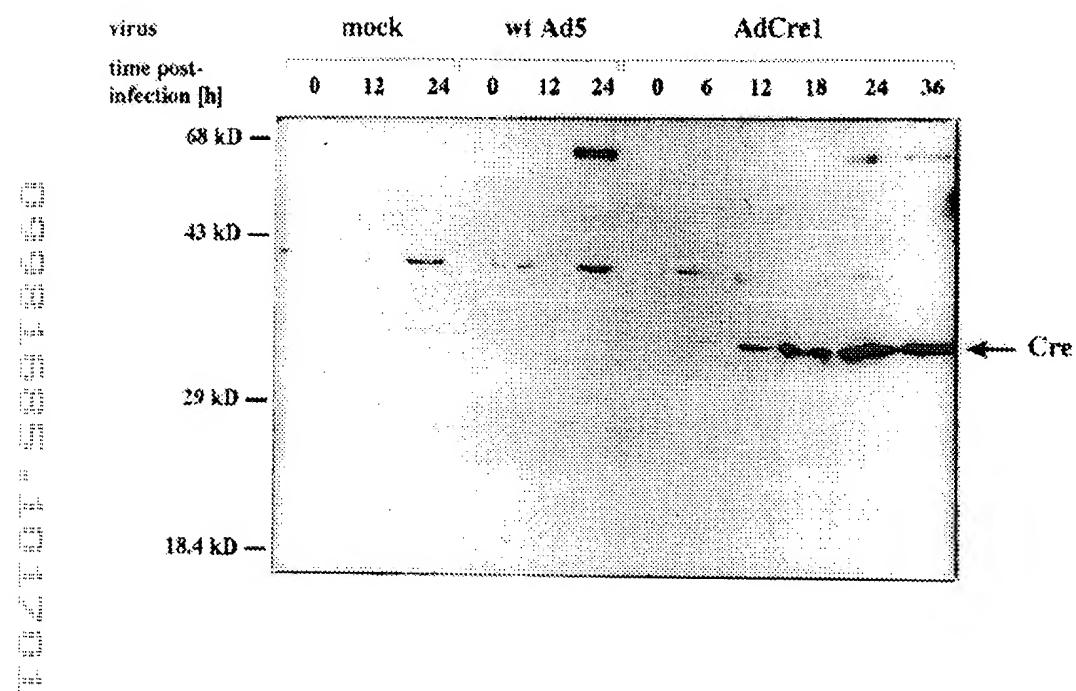


FIGURE 2

CONSTRUCTION OF AD VECTORS EXPRESSING LUCIFERASE
UNDER CONTROL OF A MOLECULAR SWITCH

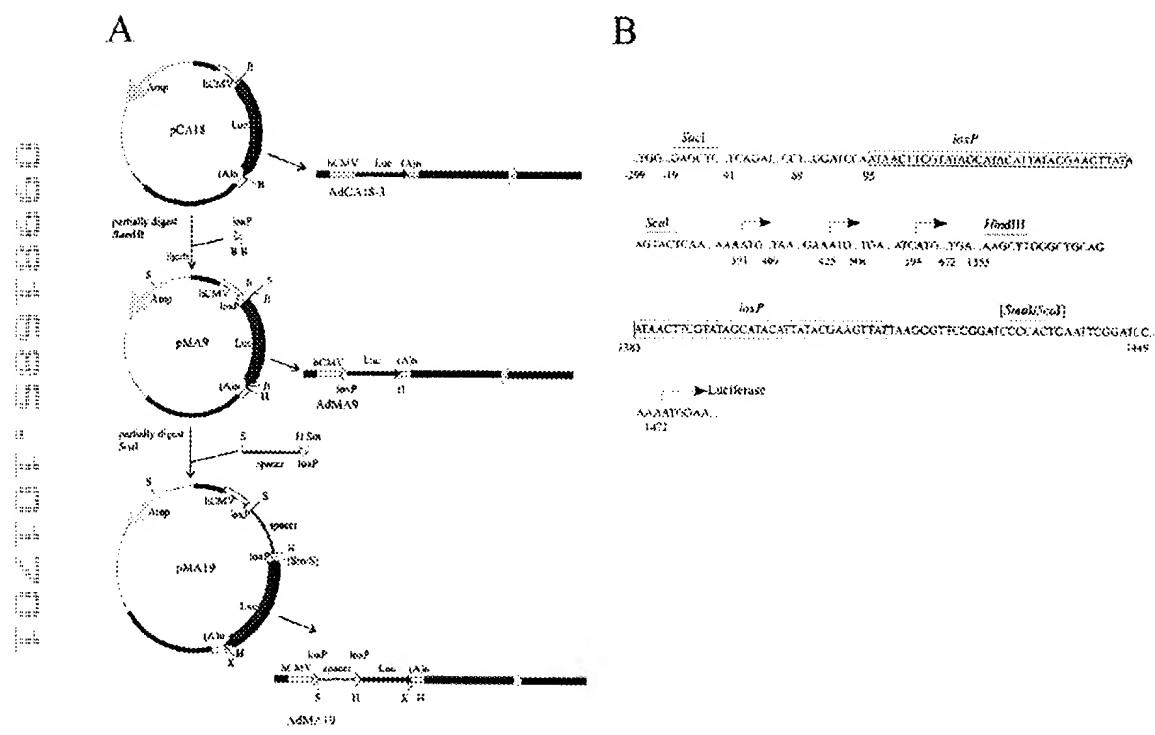


FIGURE 3

CRE MEDIATED RECOMBINATION

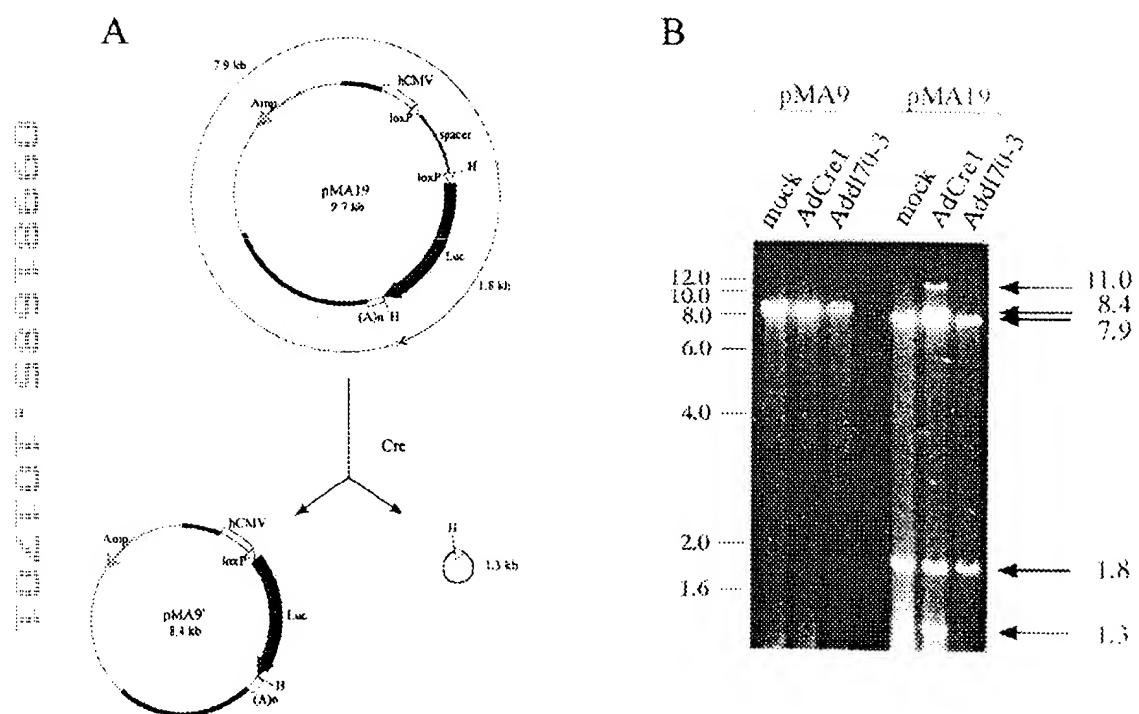


Figure 4

EXCISION OF SEQUENCES FROM ADMA19 IN
CELLS COINFECTED WITH ADMA19 AND ADCRE

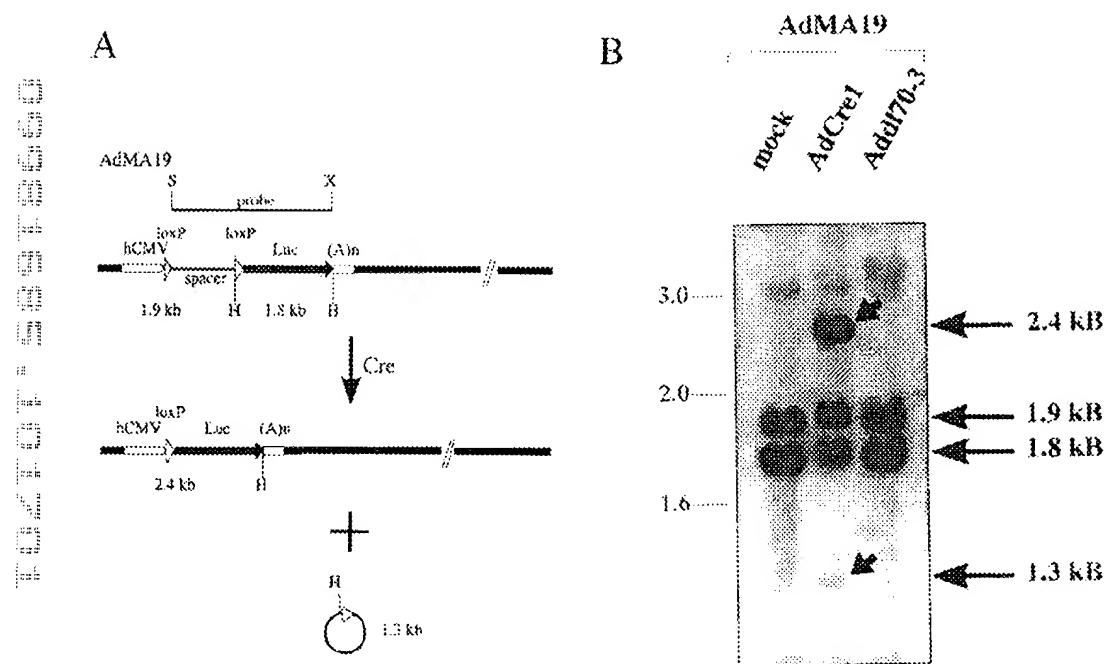
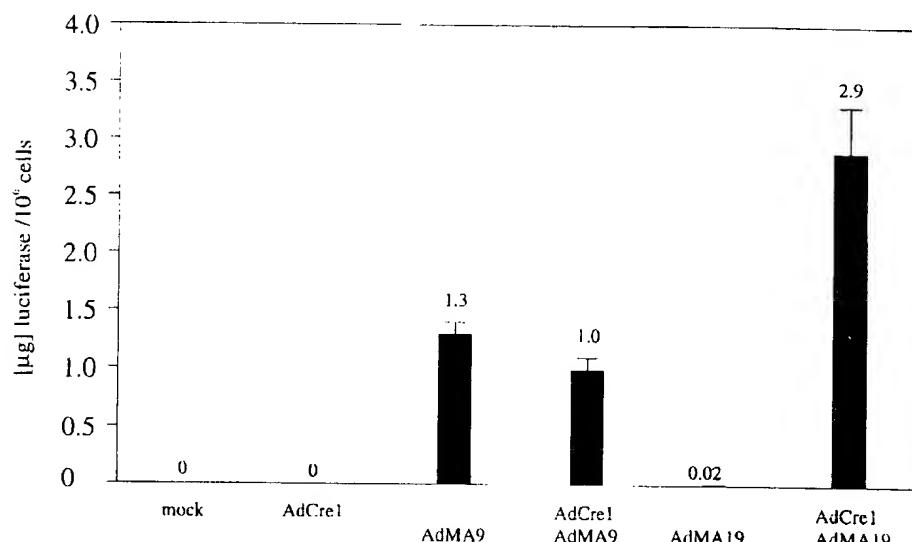


FIGURE 5A,B

EXPRESSION OF LUCIFERASE IN AD VECTOR INFECTED CELLS

Expt. 1



Expt. 2

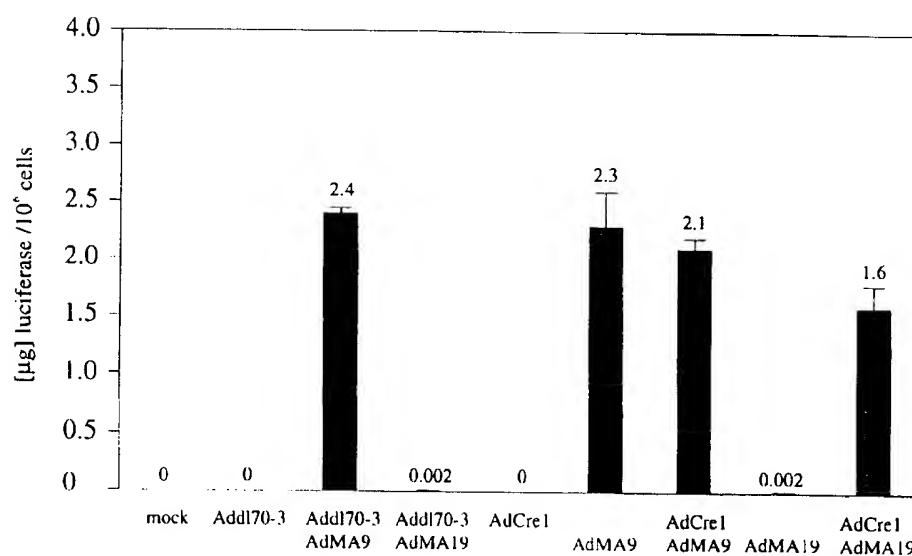
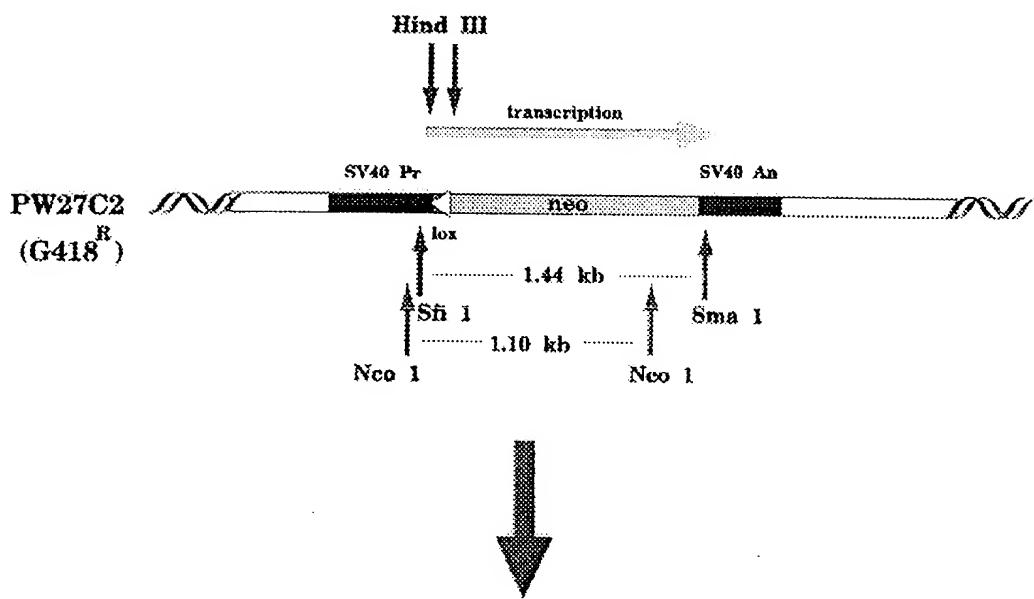


FIGURE 5C

STRUCTURE OF INTEGRATED SEQUENCES IN CELL LINE PW27C2



EXPRESSION OF NEO RESULTING IN G418 RESISTANCE

FIGURE 6A

SOUTHERN BLOT HYBRIDIZATION ANALYSIS OF DNA
FROM CELL LINES INFECTED WITH ADCRE

1000 100 10 1 0.1 0.01 0.001

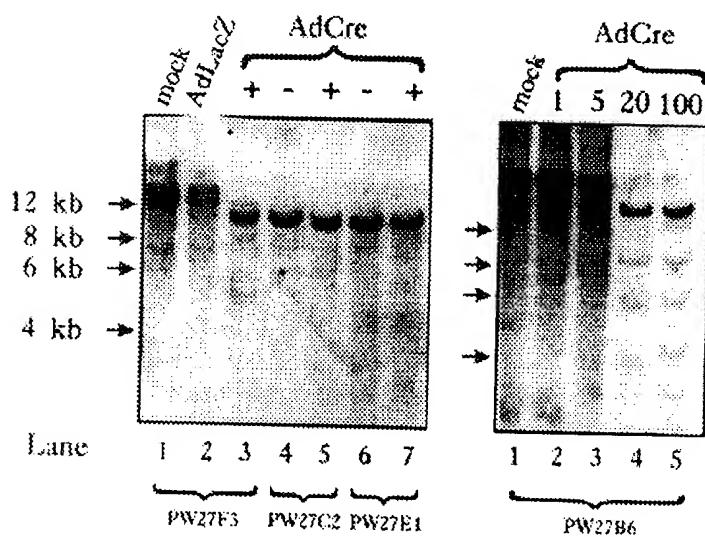


FIGURE 6C

CRE-MEDIATED INSERTION OF A PLASMID ENCODING HISD SEQUENCES INTO THE LOX SITE OF CELL LINE PW27C2

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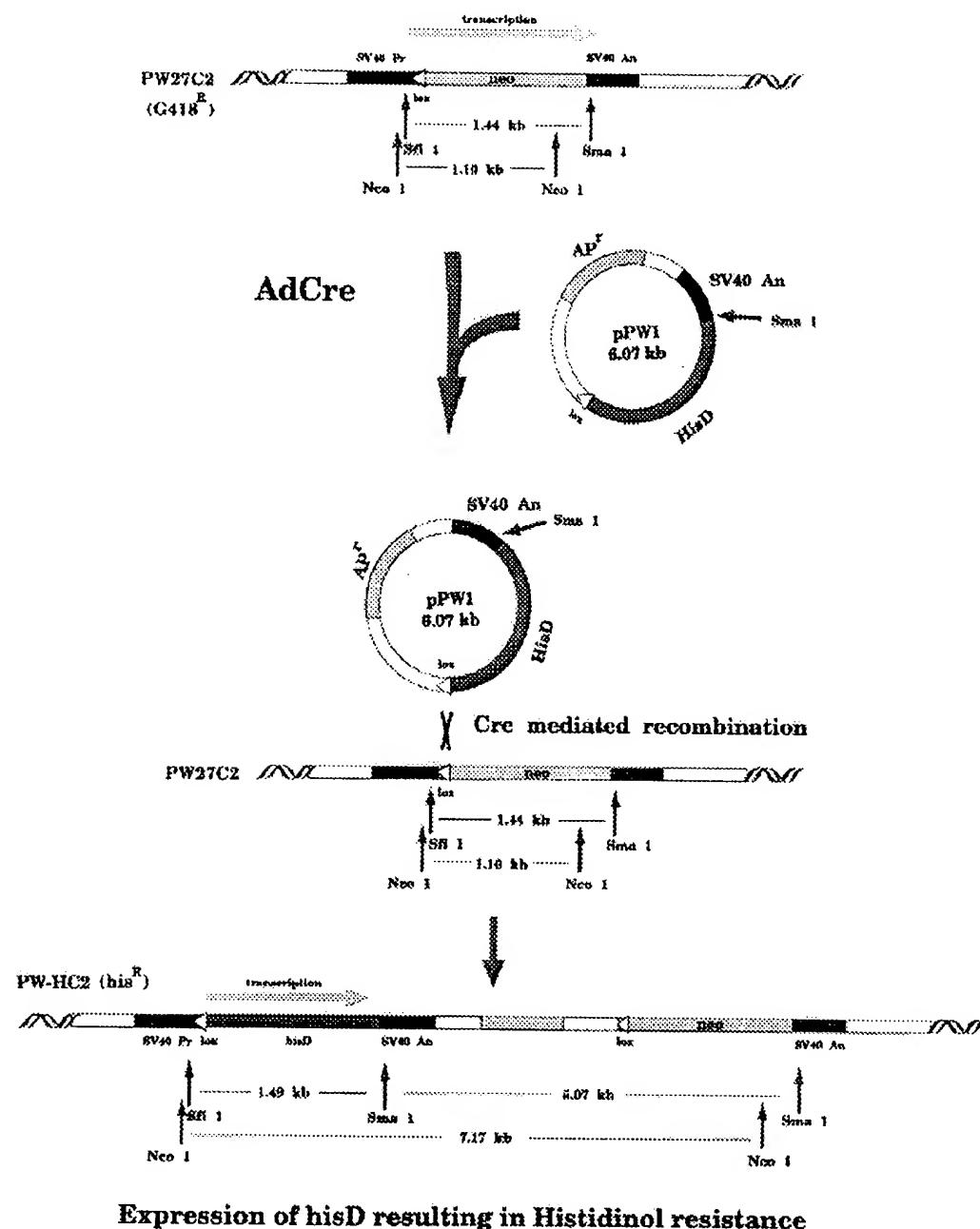


FIGURE 7A

SOUTHERN BLOT HYBRIDIZATION ANALYSIS OF CELL LINES DERIVED BY CRE MEDIATED INTEGRATION OF pPW1

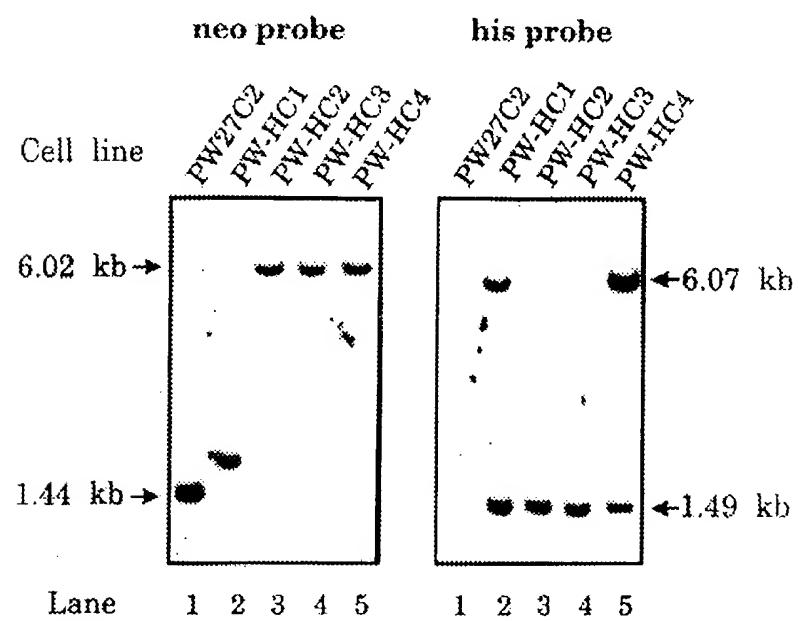


FIGURE 7B

SOUTHERN BLOT HYBRIDIZATION ANALYSIS OF CELL LINES DERIVED BY CRE MEDIATED INTEGRATION OF pPW1

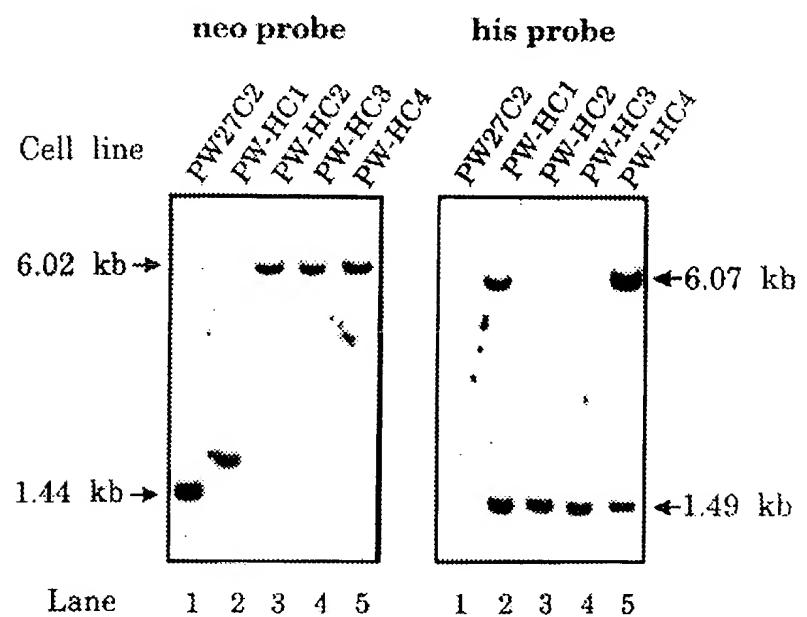
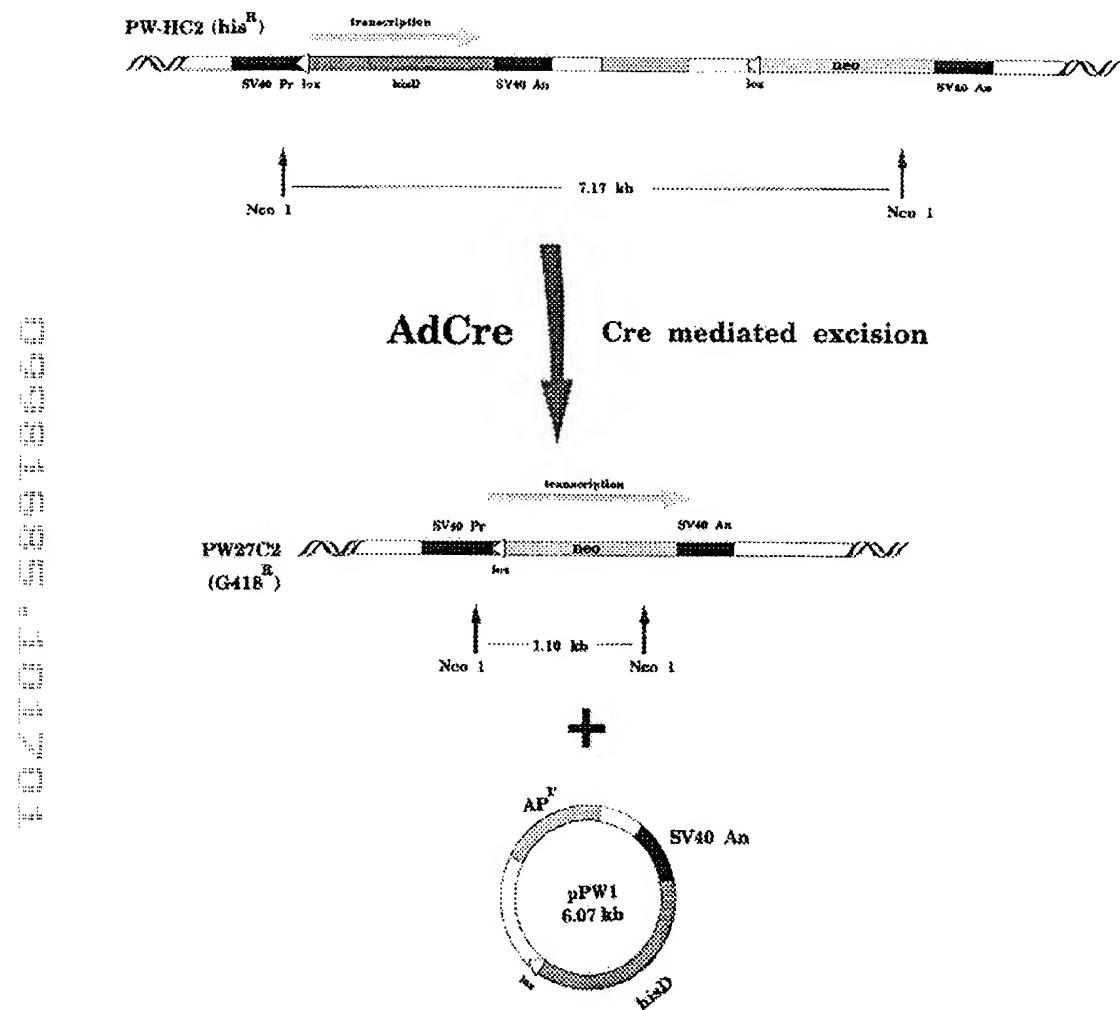


FIGURE 7B

CRE-MEDIATED EXCISION OF DNA CONTAINING hisD SEQUENCES FLANKED BY LOX SITES



**Loss of *hisD* expression (Histidinol sensitive)
Gain of neo expression (G418 resistant)**

FIGURE 8A

Conversion of HisD resistant cells to
G418 resistant cells by infection with AdCre

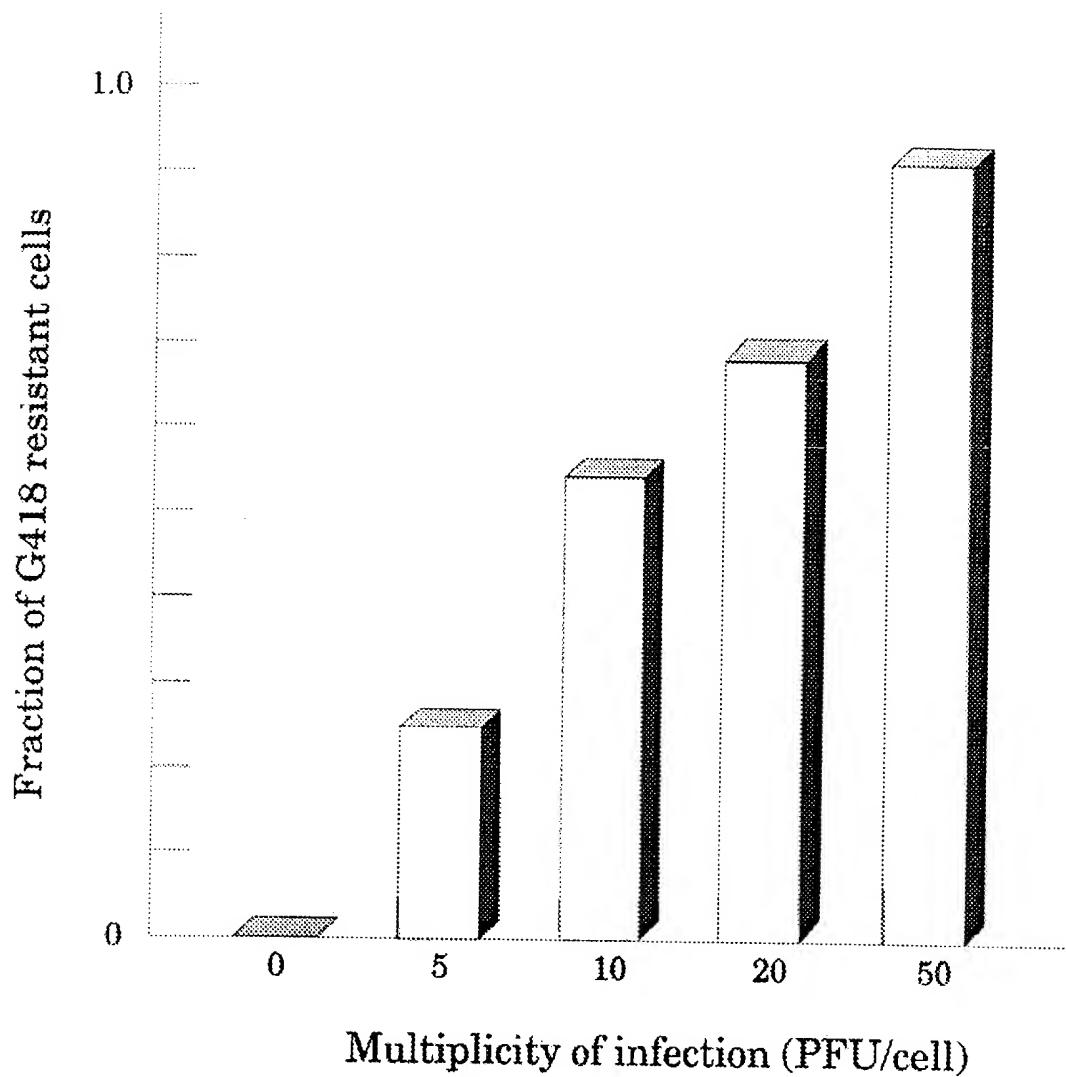
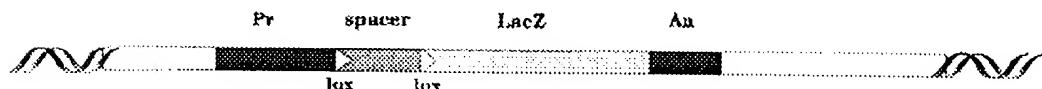


FIGURE 8B

**IN VIVO GENE EXPRESSION
CONTROLLED BY A MOLECULAR SWITCH**



**TRANSGENICS CONTAINING GENES
CONTROLLED BY A MOLECULAR SWITCH**

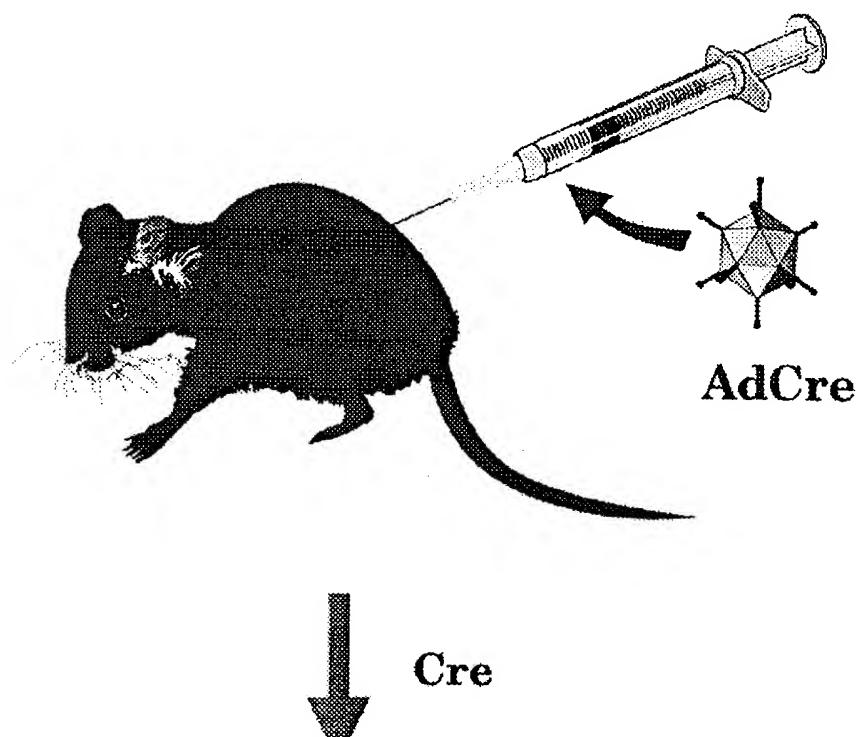


Figure 9